

**We Claim:**

1. An intravenous catheter assembly comprising:

a catheter having a proximal end and a distal end;

5 a catheter adapter in fluid communication with the catheter and having a proximal end and a distal end connected to the proximal end of the catheter;

an introducer needle disposed, at least in part, within the catheter, the introducer needle having a proximal end and a distal end with an opening;

10 a needle hub having a proximal end and a distal end connected to the proximal end of needle;

a septum housing mounted at the proximal end of the catheter adapter, wherein the septum housing includes a proximal end; and

15 an elastomeric septum having a distal portion and a proximal portion, the elastomeric septum being disposed in the septum housing, distal, at least in part, to the proximal end of the septum housing;

wherein the proximal end of the septum housing is adapted to prevent the attachment of a medical device to the proximal end of the catheter adapter.

20 2. The assembly of claim 1 wherein the proximal end of the septum housing extends over at least a portion of a proximal face of the septum.

25 3. The assembly of claim 2 wherein the introducer needle defines a notch therein adjacent to the distal end, and wherein a notch distance is defined as the distance between a proximal end of the notch and a distal end of the opening in the distal end of the introducer needle and wherein the septum has a length greater than the notch distance.

4. The assembly of claim 3 wherein the septum defines a cavity.

5. The assembly of claim 1 wherein the septum housing extends only along the proximal portion of the septum.

6. The assembly of claim 1 wherein the septum housing extends along both the proximal portion and the distal portion of the septum.

7. The assembly of claim 1 wherein the septum is disposed in the septum housing in a friction fit.

8. The assembly of claim 1 wherein the septum housing provides a compressive force to the septum.

9. The assembly of claim 1 wherein the septum housing is affixed to the catheter adapter by at least one of an interference fit or an adhesive or a weld.

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10. A septum assembly comprising:

an adapter having a proximal end and a distal end;

a rigid septum housing mounted at the proximal end of the catheter adapter, wherein the septum housing includes a proximal end; and

20 an elastomeric septum having a distal portion and a proximal portion, wherein a cavity is located in the septum, extending from the distal portion to the proximal portion and wherein the elastomeric septum is disposed in the septum housing;

25 wherein the proximal end of the septum housing abuts at least a portion of a proximal face of the septum to prevent the attachment of a medical device to the proximal end of the catheter adapter.

11. The assembly of claim 10 wherein the septum housing extends only along the proximal portion of the septum.

12. The assembly of claim 10 wherein the septum housing extends along both the proximal portion and the distal portion of the septum.

13. The assembly of claim 10 wherein the septum is compressed within the septum housing and held in a friction fit.

14. The assembly of claim 10 wherein the septum housing is affixed to the catheter adapter by at least one of an interference fit or an adhesive or a weld.

15. An assembly comprising:

a needle having a cross section;

an adapter having a proximal end and a distal end;

a septum housing having a fixed shape and fixedly attached to the adapter; and

a septum fixedly disposed in the septum housing and including a septum proximal portion and a septum distal portion;

wherein the needle has a proximal end and a distal end with an opening, wherein the introducer needle defines a notch therein adjacent to the distal end, and wherein a notch distance is defined as the distance between a proximal end of the notch and a distal end of the opening in the distal end of the introducer needle and wherein the septum has a length greater than the notch distance; and

wherein the proximal end of the septum housing is adapted to prevent the attachment of a medical device to the proximal end of the adapter.

16. The assembly of claim 15 wherein the proximal end of the septum housing abuts and extends over at least a portion of a proximal face of the septum.

17. The assembly of claim 16 wherein the septum defines a cavity.

18. The assembly of claim 17 wherein the septum housing extends only along the proximal portion of the septum.

19. The assembly of claim 18 wherein the septum is disposed in the septum housing in a friction fit and the septum housing provides a compressive force to the septum.

- 5 20. The assembly of claim 19 wherein the septum housing is affixed to the catheter adapter by at least one of an interference fit or an adhesive or a weld.